

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings, of claims in the application:

Cancel claim 1 without prejudice and substitute therefor new claims 4-30 as follows:

**Listing of Claims:**

Claims 1-3 (canceled).

4. (New) An isolated nucleic acid comprising at least about 15 contiguous nucleotides of a nucleotide sequence substantially the same as nucleotides 13-129 of SEQ ID NO:1, or complement thereof.

5. (New). The isolated nucleic acid of claim 4, wherein said nucleotide sequence selectively hybridizes to a fragment of nucleotides 13-129 of SEQ ID NO:1.

6. (New) The isolated nucleic acid of claim 4, comprising a nucleotide sequence encoding a portion of a Pin1 polypeptide having substantially the same amino acid sequence as amino acids 5-43 of SEQ ID NO:2.

7. (New) The isolated nucleic acid of claim 6, comprising a nucleotide sequence encoding a portion of a Pin1 polypeptide having substantially the same protein-protein interaction activity as amino acids 5-43 of SEQ ID NO:2.

8. (New). The isolated nucleic acid of claim 4, comprising a degenerate nucleotide sequence variant encoding a portion of a Pin1 polypeptide having substantially the same amino acid sequence as amino acids 5-43 of SEQ ID NO:2.

9. (New). The isolated nucleic acid of claim 4, comprising the same nucleotide sequence as nucleotides 13-129 of SEQ ID NO:1.

10. (New) An isolated nucleic acid comprising a nucleotide sequence substantially the same as nucleotides 13-129 of SEQ ID NO:1.

11. (New) The isolated nucleic acid of claim 10, wherein said nucleotide sequence selectively hybridizes to nucleotides 13-129 of SEQ ID NO:1.

12. (New) The isolated nucleic acid of claim 10, comprising a nucleotide sequence encoding a Pin1 polypeptide having substantially the same amino acid sequence as amino acids 5-43 of SEQ ID NO:2.

13. (New) The isolated nucleic acid of claim 12, comprising a nucleotide sequence encoding a Pin1 polypeptide having substantially the same protein-protein interaction activity as amino acids 5-43 of SEQ ID NO:2.

14. (New) The isolated nucleic acid of claim 10, comprising a degenerate nucleotide sequence variant encoding a Pin1 polypeptide having substantially the same amino acid sequence as amino acids 5-43 of SEQ ID NO:2.

15. (New) The isolated nucleic acid of claim 10, comprising the same nucleotide sequence as nucleotides 13-129 of SEQ ID NO:1.

16. (New) An isolated nucleic acid comprising a nucleotide sequence encoding a portion of SEQ ID NO:2 that exhibits protein-protein association activity.

17. (New) The isolated nucleic acid of claim 16, wherein said protein-protein association activity comprises NIMA mitotic kinase binding activity.

18. (New) An isolated nucleic acid comprising at least about 15 contiguous nucleotides of a nucleotide sequence substantially the same as nucleotides 175-489 of SEQ ID NO:1.

19. (New) The isolated nucleic acid of claim 18, wherein said nucleotide sequence selectively hybridizes to a fragment of nucleotides 175-489 of SEQ ID NO:1.

20. (New) The isolated nucleic acid of claim 18, comprising a nucleotide sequence encoding a portion of a Pin1 polypeptide having substantially the same amino acid sequence as amino acids 59-163 of SEQ ID NO:2.

21. (New) The isolated nucleic acid of claim 20, comprising a nucleotide sequence encoding a portion of a Pin1 polypeptide having substantially the same PPIase activity as amino acids 59-163 of SEQ ID NO:2.

22. (New) The isolated nucleic acid of claim 18, comprising a degenerate nucleotide sequence variant encoding a portion of a Pin1 polypeptide having substantially the same amino acid sequence as amino acids 59-163 of SEQ ID NO:2.

23. (New) The isolated nucleic acid of claim 18, comprising the same nucleotide sequence as nucleotides 175-489 of SEQ ID NO:1.

24. (New) An isolated nucleic acid comprising a nucleotide sequence substantially the same as nucleotides 175-489 of SEQ ID NO:1.

25. (New) The isolated nucleic acid of claim 24, wherein said nucleotide sequence selectively hybridizes to nucleotides 175-489 of SEQ ID NO:1.

26. (New) The isolated nucleic acid of claim 24, comprising a nucleotide sequence encoding a Pin1 polypeptide having substantially the same amino acid sequence as amino acids 59-163 of SEQ ID NO:2.

27. (New) The isolated nucleic acid of claim 26, comprising a nucleotide sequence encoding a Pin1 polypeptide having substantially the same PPlase activity as amino acids 59-163 of SEQ ID NO:2.

28. (New) The isolated nucleic acid of claim 24, comprising a degenerate nucleotide sequence variant encoding a Pin1 polypeptide having substantially the same amino acid sequence as amino acids 59-163 of SEQ ID NO:2.

29. (New) The isolated nucleic acid of claim 24, comprising the same nucleotide sequence as nucleotides 175-489 of SEQ ID NO:1.

30. (New) An isolated nucleic acid comprising a nucleotide sequence encoding a portion of SEQ ID NO:2 that exhibits PPlase activity.